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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/573,418	03/27/2006	Takeshi Iwatsu	286664US6PCT	2799	
	22850 7590 11/09/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.			EXAMINER	
1940 DUKE STREET			TRUONG, DENNIS		
ALEXANDRIA	ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			2169		
			NOTIFICATION DATE	DELIVERY MODE	
			11/09/2009	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
	10/573,418	IWATSU ET AL.
Office Action Summary	Examiner	Art Unit
	DENNIS TRUONG	2169
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perionally reply or perionally reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tind will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>27</u> This action is FINAL . 2b)☑ The 3)☐ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pr	
Disposition of Claims		
4) ☐ Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdred is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and are subjected to by the Examination of the specification is objected to by the Examination. 10) ☐ The drawing(s) filed on 27 March 2006 is/are	rawn from consideration. /or election requirement. ner.	to by the Examiner.
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the I	ection is required if the drawing(s) is ob	pjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list 	nts have been received. nts have been received in Applicat iority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/27/2009 has been entered.

Response to Amendment

- 2. It is acknowledged that claims 1-15have been amended. And Claim 16 and 17 has been added.
- 3. Claims 1-17 are pending.

Response to Arguments

4. Applicant's arguments with respect amended claims 1 have been fully considered but are moot in view of new grounds of rejection.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-14 rejected under 35 U.S.C. 103(a) as being unpatentable over Craig et al. (US 6757708 B1) (herein referenced as Craig) in view of Tso et al. (US 6681298 B1) (herein referenced as Tso) further in view of Ortega et al. ("Soft Caching:Web Cache Management Techniques for Images) (herein referenced as Ortega).

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As per claim 1, Craig discloses:

- means for transmitting a request for page information to said external apparatus, at least by (col. 11 lines 16-17, Fig. 4) "A request 405 for dynamic generated content is received at Web server 410", where the request and receiving of the content is transmitting, and the web server is the external apparatus.

- information corresponding to content data, and for receiving said content data corresponding to said identification information included in said page information, at least by (col. 11 lines 17-21) where it is disclosed that the received request via HTTP is forwarded to a web application server that supports JSPs and servlets, then the "request is then passed to a servlet 420 corresponding to the invoked JSP, where this servlet 420 uses a bean 425". It is known in the art and further disclosed in (col. 12-13) that beans refers to the dynamic content that is generated and the status of the beans by the methods defined within the bean so the disclosed bean and the methods related to versions ("serialVersionUID") and cashed information ("amICached") bean etc., are the identification information corresponding to the content data.
- means for storing said content data received by said means for receiving, based on said identification information independently of said page information, at least by (fig. 6-9) discloses the process of caching based on the condition of the bean and whether it has been cached or out of date. This is done independently of the page information because the "executed methods" pertaining to the identification information are defined within the bean.

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- means for outputting the said content data along with said page information, at least by (Fig. 3A ref. 310b, col. 9 lines 38-40) "FIG. 3B shows that the JSP 355 sets and gets 360, 361 information from each bean 365, 366, where this information may be a result of the bean retrieving 370, 371 information from the data store 375, 376. Once the dynamically generated response is complete, it is returned 310b from the JSP 355 to the browser 305."

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- But Craig fails to specifically disclose:

- (a) means for detecting whether said means for storing is storing content data corresponding to said identification information independently of said page information
- (b) and for controlling said means for outputting to output said content data stored by said means for storing without an inquiry via the network when said means for detecting detects that said means for storing is storing said content data.
- (c) and for controlling said means for receiving to receive by said content data from the external apparatus via the network when said content data is not stored in said means for storing.

However, **Ortega** teaches the above limitations (a) (b) and (c) at least by (page 476) "cache by temporarily storing on local disk or memory, objects which were requested by the clients...the proxy searches its local storage for the requested object. if the object is available locally (hit) it is sent to the client, otherwise (miss) the request is passed on to the remote server", where the object is further disclosed as images which is an object being cached separate from the

rest of the content (page 477), and since the cache is on a local disk it does not require any inquiries via the network.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Ortega** into the teaching of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of allowing the ability to cache memory intensive content of a webpage locally for quicker retrieval and relieves the load at the server.

As per claim 2, claim 14 is incorporated and further Craig discloses:

wherein said controller is configured to store in said memory the content data
 corresponding to the identification information included in said page information, at
 least by (Fig. 6 ref 600) and further (Fig. 4 ref 430) is claimed memory.

As per claim 3, claim 2 is incorporated and further Craig fails to specifically disclose:

- wherein the content data is an image data and the page information is defined by a portal site.

However, **Ortega** teaches the above limitations at least by (page 477) where the object is further disclosed as images.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Ortega** into the teaching of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of being able to cache media that requires more bandwidth and resources for improved browsing and accessibility.

As per claim 4, claim 2 is incorporated and further Craig fails to specifically disclose:

- wherein the content data is sound data and the page information is defined by a portal site.

However, **Tso** teaches the above limitations at least by (col. 3 lines 62-63), as "Cache items include web pages or HTML documents that include HTML text plus images, **audio**."

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of being able to cache media that requires more bandwidth and resources for improved browsing and accessibility.

As per claim 5, claim 14 is incorporated and further Craig fails to specifically disclose:

- wherein sid controller is configured to count a number of times the content data had been reproduced, and said controller is configured to store in said memory the content data that has been accessed more than a certain number of times.

However, **Tso** teaches the above limitations at least by (Fig. 7A, Ref. 410) shows the cache with a count of number "times used."

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of filtering out the least viewed content to optimize the usage of memory and resources.

As per claim 6, claim 14 is incorporated and further Craig fails to specifically disclose:

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 wherein sid controller is configured to count the number of time the content has been reproduced, and said controller if configured to remove from said storage means memory the content data that has been infrequently accessed.

However, **Tso** teaches the above limitations at least by (col. 5 lines 4-8), as "control deletes the web page with the lowest removal factor and returns to step 252. Control also preferably removes web pages that were preloaded when the deleted web page was initially loaded."

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of filtering out the least viewed content to optimize the usage of memory and resources.

As per claim 7, claim 6 is incorporated and further Craig fails to specifically disclose:

 wherein said controller is configured to register in said memory an indicator showing an importance of said content data along with said content data, and to prevent said content data from being removed from said memory based on said indicator of said content data regardless of a frequency of playback access of said content data.

However, **Tso** teaches the above limitations at least by (col. 5 lines 4-5) as "control deletes the web page with the lowest removal factor and returns to step 252" where removal factor is based on (col. 7 lines 65 – col. 8 lines 3) "function F that depends on one or more of the usage and/or data type factors for each cache item" where because the removal factor is based on one or more of the usage and/or data type the removal of the item can be prevented regardless of the frequency of the page accessed.

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Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of allowing the ability to define a preference in what the user wants cached which allows more freedom and customization in how the memory and resources should be used.

As per claim 8, claim 14 is incorporated and further Craig fails to specifically disclose:

- wherein, when said controller receives said content data in a compressed format from said external apparatus, said controller registers in said memory said content data in an uncompressed format.

However, **Tso** teaches the above limitations at least by (col. 6 lines 23-24), as "indicates whether the cache item is compressed ("C") or decompressed ("D")," which shows that both compress and uncompressed data can be stored.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of storing the content is its original form which then improves the content retrieval time.

As per claim 9, claim 8 is incorporated and further Craig fails to specifically disclose:

wherein, when said controller receives the content data in the compressed format
 with a certain attribute, said controller registers in said means memory said content
 data in uncompressed format.

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However, **Tso** teaches the above limitations at least by (col. 6 lines 23-24), as "indicates whether the cache item is compressed ("C") or decompressed ("D")," where ("C") and ("D") are claimed attribute.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of storing the content is its original form which then improves the content retrieval time.

As per claim 10, claim 14 is incorporated and further Craig fails to specifically disclose:

- wherein, said receiver includes a content reproduction unit configured to reproduce the content data received, and said controller is configured to convert the content data received from said external apparatus into a compression format corresponding to characteristics of said content reproduction means unit, and to then store said content data in said memory.

However, **Tso** teaches the above limitations at least by (col. 4 lines 29), as "control continues with step 212. Control outputs the web page to the display 30 and continues with step 204" and (col. 4 lines 44-45) as ," control stores the web page in cache and outputs the web page to the display 30 in step 256" show reproducing stored content and (col. 6 lines 23-24), as "indicates whether the cache item is compressed ("C") or decompressed ("D") show the ability to reproduce compressed data.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the

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ordinary skill in the art would have been motivated to use such a modification for the purpose of optimizing the storage space by storing the compressed data.

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As per claim 11, claim 14 is incorporated and further Craig discloses:

- wherein, the page information received by said receiver includes said identification information and a Uniform Resource Locator (URL), at least by (Fig. 4 Ref. 405) it should be understood the an HTTP req includes a url. And at least by (col. 11 lines 17-21) where it is disclosed that the received request via HTTP is forwarded to a web application server that supports JSPs and servlets, then the "request is then passed to a servlet 420 corresponding to the invoked JSP, where this servlet 420 uses a bean 425", where the bean is the content data being requested.
- and said controller is configured to access, when the content data corresponding to said content identification information is not stored in said memory, said URL to acquire said content data from said external apparatus, at least by (Fig. 7 Ref 715 and 725) shows the instance where the bean is not cached the "CS returns NULL to EM" which lead to the determination of caching in (Fig.9).

Claim 12 is an information reproduction method corresponding to the apparatus claim 1, and is rejected under the same reason set forth in connection to rejection of claim 1 above.

Claim 13 is a program product claim corresponding to the apparatus claim 1, and is rejected under the same reason set forth in connection to rejection of claim 1 above. Where **Craig** further discloses the program product stored upon a computer readable medium to be processed, at least by (Claim 35).

Claim 14 is an information reproduction apparatus corresponding to the apparatus claim 1, and is rejected under the same reason set forth in connection to rejection of claim 1 above. Where Craig further discloses the apparatus as (Fig. 1 and Fig. 2) which is used to provide the means that has been disclosed in claim 1.

As per claim 15, claim 16 is incorporated and further Craig and Tso fails to specifically disclose:

- the interface includes a display of predetermined dimensions, and the second size is based on the predetermined dimensions of the display.

However **Ortega** teaches the above limitation"...(page 477) "cache management task consist of determining both which images to maintain in the cache and the level of resolution at which they should be stored", which shows that a different resolution can be stored which is the second sized claimed.

As per claim 16, claim 14 is incorporated and further Craig and Tso fails to specifically disclose:

- the information processing apparatus according to claim 14, wherein the controller is configured to translate the content data provided by the external apparatus from a first format and first size to a second format and a second size based on a characteristic of the interface.

However **Ortega** teaches the above limitation"...(page 477) "cache management task consist of determining both which images to maintain in the cache and the level of resolution at which they should be stored...(page 479) global storage limits for the set of N images will mean that a

lower resolution image may have to be stored", which shows that a different resolution can be stored which is the second sized claimed dependent on the local storage limitations.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Ortega** into the teaching of **Craig and Tso** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose allowing clients to retrieve data from data sources that do not necessarily support the same formats as the clients which improves the accessibility between less-conventional clients and the internet.

As per claim 17, claim 14 is incorporated and further Craig fails to specifically disclose:

- wherein the identification information identifies a vendor, the receiver is configured to receive said content data in a compressed format, and the controller is configured to decompress said content data, based on the vendor.

However, **Tso** teaches the above limitations at least by (col. 4 lines 29), as "control continues with step 212. Control outputs the web page to the display 30 and continues with step 204" and (col. 4 lines 44-45) as ," control stores the web page in cache and outputs the web page to the display 30 in step 256" show reproducing stored content and (col. 6 lines 23-24), as "indicates whether the cache item is compressed ("C") or decompressed ("D") show the ability to reproduce compressed data.

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention made to incorporate the teaching of **Tso** into the teaching of **Craig** because one of the ordinary skill in the art would have been motivated to use such a modification for the purpose of optimizing the storage space by storing the compressed data.

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DENNIS TRUONG whose telephone number is (571)270-3157.

The examiner can normally be reached on MON - FRI: 7:30 - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mahmoudi Tony can be reached on (571) 272-4078. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tony Mahmoudi/

Supervisory Patent Examiner, Art Unit

2169

/Dennis Truong/

Examiner, Art Unit 2169